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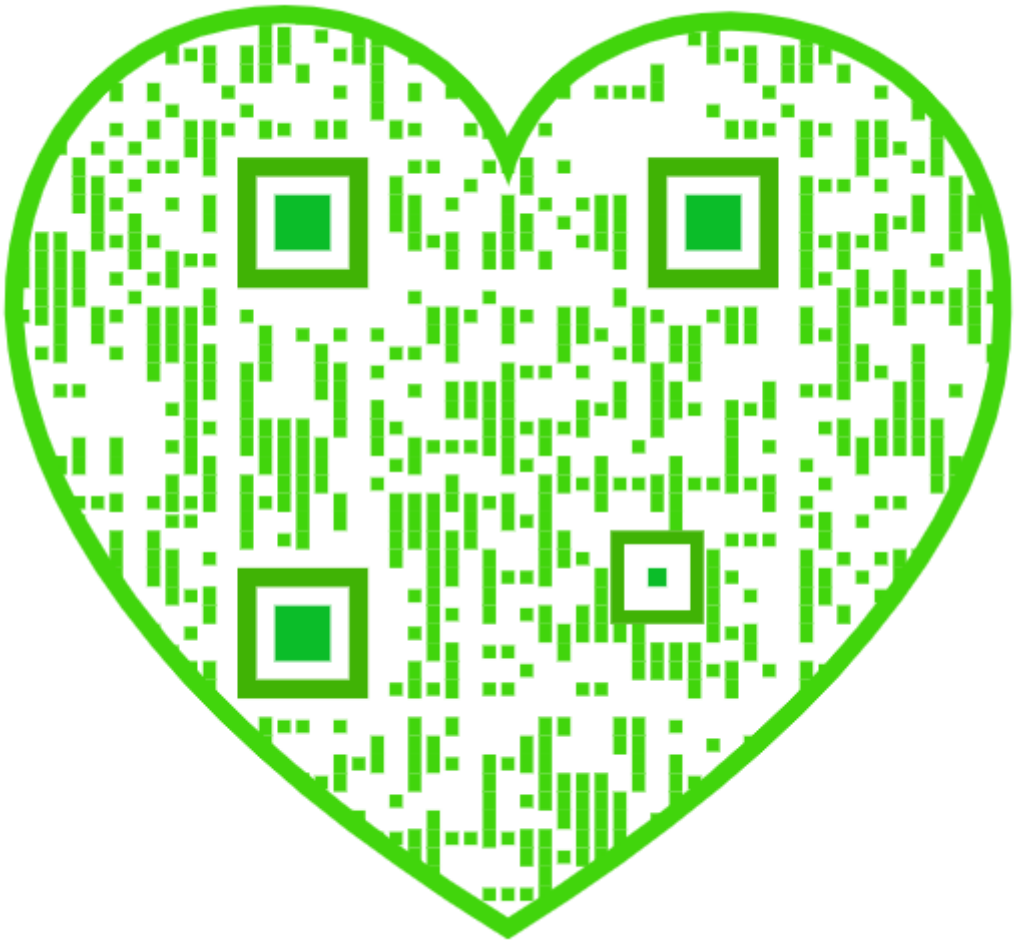

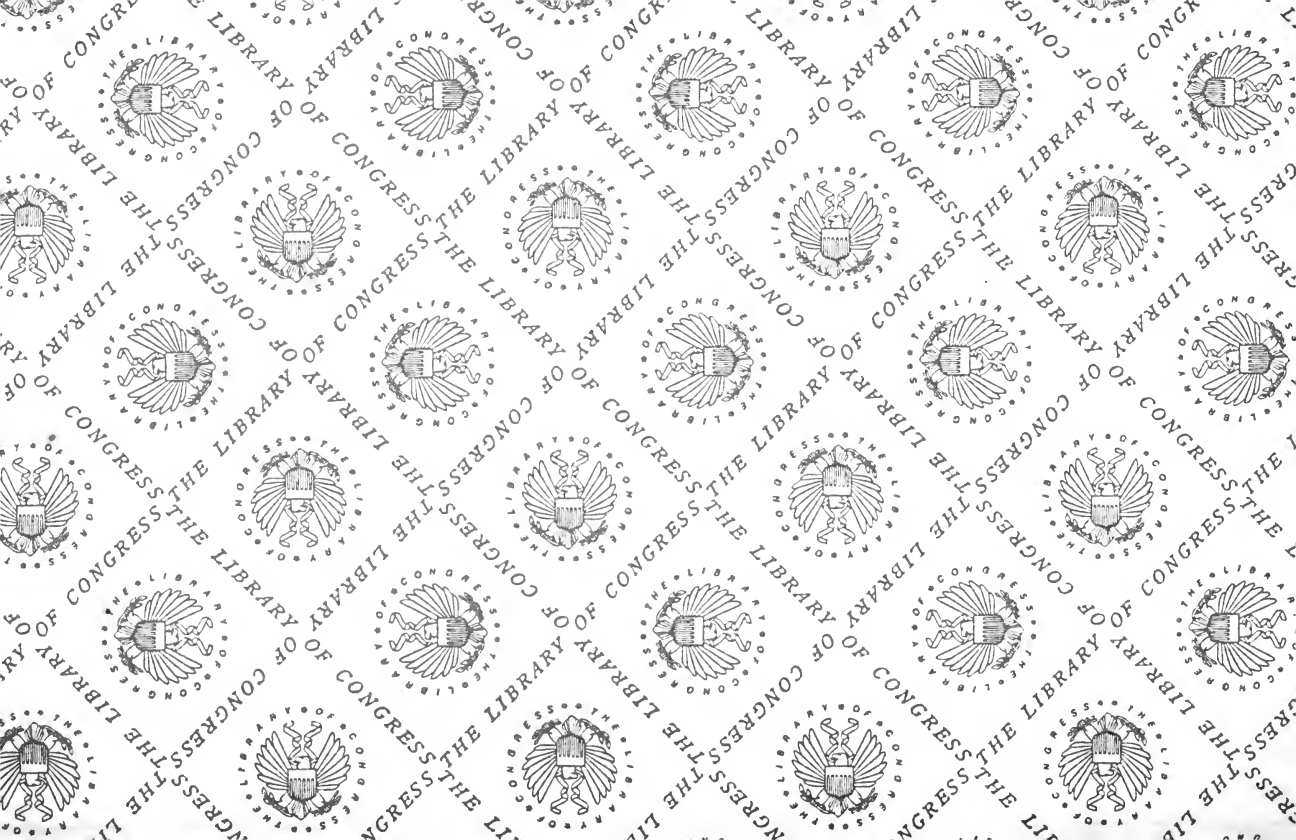
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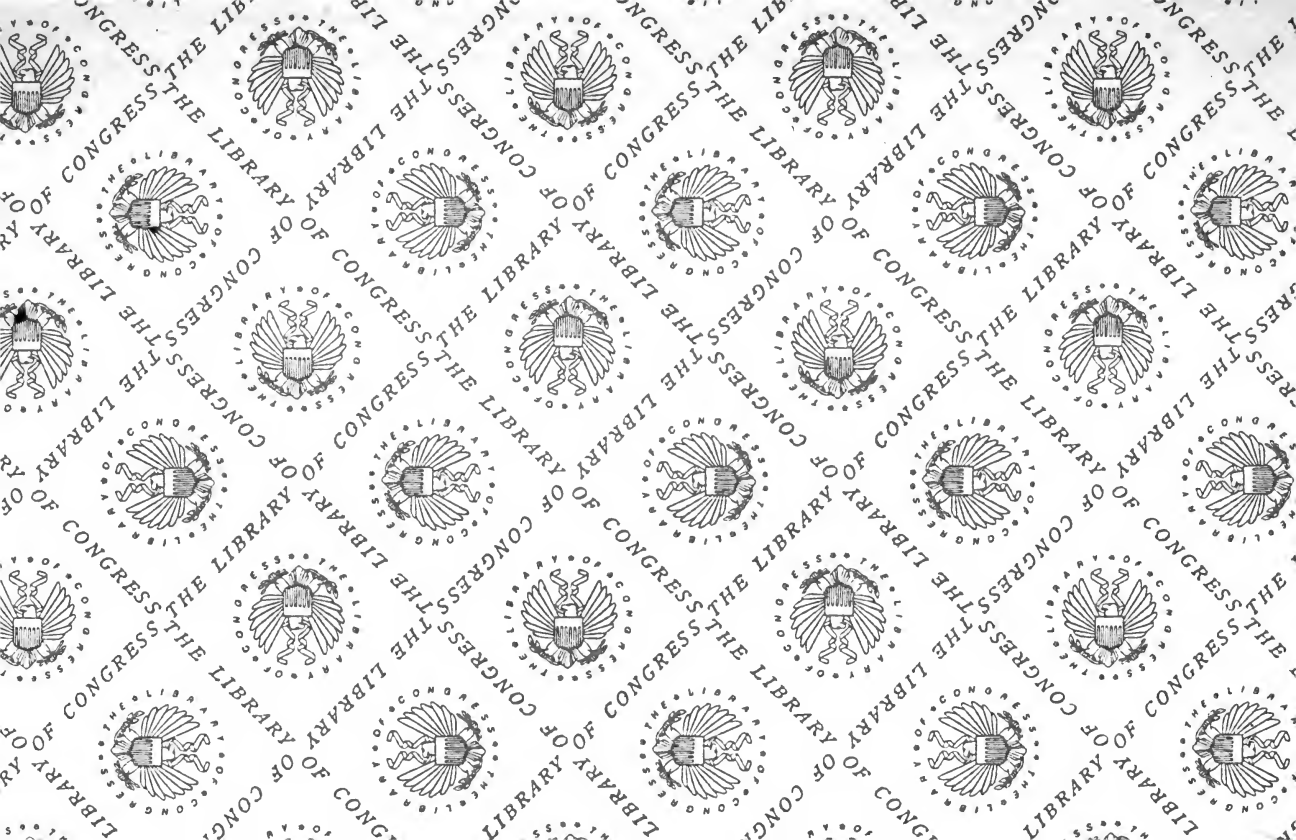
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# THE AMERICAN METRICAL SYSTEM

—FOR—

# CUTTING

# Ladies' and Children's Dresses

AND ALL CLOSE FITTING GARMENTS.

WITH A

## TABLE OF CALCULATIONS FOR ALL SIZES.

15 Carman & Blaney

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Unrev'd

# MEASURES TO TAKE

—AND—

## HOW TO TAKE THEM.

TIE a cord or string around the waist, quite tight; measure around the neck close, for neck measure; measure around the arm, below the shoulder, tight, for *Arm's Eye*. For bust, measure around the fullest part of bust, and well up between the shoulders, placing the ends of two fingers over the front part of bust, letting the tape pass over the fingers. Take the waist measure tight. Take front measure from the most prominent bone in the back of neck, over the shoulder and full part of bust, to the string or cord around the waist, in front. Take back measure from same bone in back of neck, to the cord or string around the waist.

Measure under arm, by placing tape far as possible up under the arm, and measure down to string around waist. Measure shoulder by placing tape as far up on neck, as dress is wanting to be worn, measuring down over point of shoulder.

Measure sleeve by measuring along the arm from near point of shoulder, on outside of arm, to prominent bone in the wrist, while the arm is bent, by placing the hand on most prominent part of bust, elbow being raised even with the hand. Elbow measure from point of shoulder to below elbow, and around elbow, measure around wrist, close to skin.

Skirts, measure from waist to the floor.

# LESSON I.

## BACK.

Draw *top line* near upper edge of cloth, and *front line* near front edge, and *square* from top line. Make point N 1 C. or ½ inch from top line. Make point P, 5 C. or 2 inches from top line.

Draw *point of shoulder line* square from P and front line. Make point W on front line just the length of back, below N. Draw waist line square from W, and front. Make point L, on waist line according to table. Make point G, on waist line 1 C. or ½ in. from W. Make point H, on front line 15 C. or 6 in. below point W. Draw hip line square from point H, and front line. Make a second point H, on hip line, 8 C. or 3 in. or once and a half the length of waist line.

Make point U, on front line, length of under arm, above W. Draw *gore* line from U to G, and from G to point H. Draw neck line from N on a curve to top, by scale. Draw shoulder line, by placing scale at junction of neck and top lines, and 9 C. or 3½ in. mark at point of shoulder line. Draw shoulder line 5 M. or ½ in. longer than ½ shoulder. Draw side back line, from point of shoulder to L. Draw side back hip line, from L to second point H on hip line.

RULE.—To obtain back neck, divide whole neck by 8, or use scale.

To obtain back waist line, see Table, or divide whole [illegible] by 12.

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C.—Centimeter.
M.—Millimeter.

## LESSON II.

### COMMON SIDE BACK.

Draw front line near edge of cloth; and draw top line square from top of front line.

Make point S for side body line 8 Centimeters or 3 inches from front line on top line.

Make point P, on front line, 5 C. or 2 inches from top line. Draw point of shoulder line, square from P and front. Make point W, on front line from point S the length of side body line in Lesson I. Draw side back line from point S straight across point W. Draw waist line, from point W and square from front; and make point L on waist line, according to table or rule. Make point U, on front line above W the length of *under arm.* Draw *under arm line* from point U and square from front; and make point B, according to table of bust measure for common back. Draw under arm gore line, from point B to L. Draw shoulder line, by placing corner of scale at point S, with 9 C. or $3\frac{1}{2}$ inch mark, touching *point of shoulder line.* Draw shoulder line, 5 M. or $\frac{1}{4}$ in. longer than $\frac{1}{2}$ *shoulder.* If it is more than 10 C. or 4 in. from point of shoulder to point B, then draw under arm gore line, up. Draw arm's eye line in a slight curve from point of shoulder to end of under arm line. Make point H, 15 C. or 6 inches, below point W on front line. Draw hip line square from H and front; draw side back hip line, straight on from W.—Low as hip line. Make a second H, on hip line, 3 C. or $1\frac{1}{2}$ inches from front, longer than waist line; and draw under arm gore hip line, from point L, to last point H on a curve.

RULE.—To obtain waist line of side back, divide whole waist by 10 or see table.

## LESSON III.

### UNDER ARM GORE.

Draw front *gore line* on front edge of paper or cloth.

Draw under arm gore line, parallel to front line, and just the distance from it given by table or rule for waist line of under arm gore.

Make point A, 5 C. or 2 inches from top of paper or cloth and on front gore line. Make point W, on front gore line the exact measure of under arm below first point A.

Draw waist line, from point W and square from front gore line to under arm gore line, making point L at end of line and on under arm gore line. Make point E, on under arm gore line above point L, just the length of under arm gore line in side body.

Draw arm's eye line, with considerable curve downward, from point E to point A on front line, or 5 M. or $\frac{1}{4}$ inch below it. Make point G, on waist line 5 M. or $\frac{1}{4}$ inch from point W.

Draw front gore line, from point A, or 5 M. or $\frac{1}{4}$ inch below it to point G. Make first point H, 15 C. or 6 inches below point W on front line; make a second point H, 3 C. or 1 inch outward from front line.

Draw a curved front gore hip line, from point G to second point H. Make a third point H, 15 C. or 6 inches below point L on under arm gore line; and make fourth point H, 5 C. or 2 inches outward from third point H.

Draw under arm gore hip line from point L to last point H, on a curve.

RULE 1st.—To obtain waist line or width of under arm gore, divide whole *waist measure* by 8, or see Table.

## LESSON IV.

### FRENCH BACK.

Draw top and front line same as any other back. Make point N, 5 M. or $\frac{1}{4}$ inch from top line on front line; and point P, 9 C. or $3\frac{1}{2}$ inches from point N. Draw point of *shoulder line* square, from point P and front line. Measure down *front line* below point N, just the length of back measure, and make point W. Make point L, square from point W and front line, just the distance given in table or rule for back waist line, (see table or rule). Draw back waist line, from point W to point L. Make point G, 1 C. or $\frac{1}{2}$ inch from point W on waist line. Make point U, just the distance above point W, and on front line, as the under arm measure. Draw under arm line, square from point U and front line. Make point B for bust measure on under arm line, as given for French back in table or rule, (see table or rule). Draw neck line same as in common back, (see table and rule). Place 18 C. or 7 inch mark on point of *shoulder line*, with rule or square touching junction of top and *neck lines*. Draw shoulder line, 1 C. or $\frac{1}{2}$ inch longer than *shoulder measure*. If point B on under arm line is more than 10 C. or 4 inches from point of shoulder line, then draw a straight arm's eye line from point of shoulder, 6 C. or $2\frac{1}{2}$ inches towards point B; and make a new point B just 6 C. or $2\frac{1}{2}$ inches from point of shoulder; and draw adjusting line parallel with point of shoulder line, and across new point B. Draw side back line by placing small end of pasteboard at point L, on waist line, and larger end at new point B; and draw *side back line*, from point B to point L. Draw back *gore line*, from point U to point G. Draw balance of lines same as in common back.

RULE 1st.—To get *back waist line*, divide whole waist by 12, or see table.

RULE 2d.—Divide whole neck by 8 to get length of back neck, or use scale.

## LESSON V.

### FRENCH SIDE BODY.

Draw top line near edge of paper or cloth. Draw front line near front edge of paper or cloth, and square from *top line*. Make point W on front line just the distance from top line as the distance is between adjusting line and waist line in Lesson IV. Make point L square from point W and front line as the table or rule gives for length of side back waist line. Draw side back waist line from W to L. Draw side back line same as you drew side back line in Lesson IV, starting from point W on waist line and ending at *top line*.

Draw arm's eye line square from top line, at junction of side back line, 4 C. or $1\frac{1}{2}$ inches to point A. Then draw *under arm gore line* straight from point A to point L on waist line. Make point H, 15 C. or 6 inches below point W on front line, and another point H out-side of front line 3, C. or 1 inch therefrom.

Make a new point H, 15 C. or 6 inches square below point L, and square from waist line; and make a fourth or last point H, 4 C. or $1\frac{1}{2}$ inches from third H.

Draw under arm hip line from point L, on a curve, so it will pass over fourth or last point H, and the lower part of side back line so it will pass straight from point W over second point H.

RULE.—To obtain side body waist line, divide whole waist by 10, or see table.

# LESSON VI.

## FRONT BODY.

Draw *front line* near edge of paper or cloth. Draw top line square from upper end of front line. Make point P, 6 C. or 2½ inches from *top line* and point N for front neck measure, according to table or rule. Draw point of shoulder line square from point P and front line. Make point B just half the length of arm's eye measure below point P on front line.

Draw front bust line square from point B and front line; and make point L for front bust measure, according to table or rule. Make another point L just the distance from first point L as the table gives for under arm gore in width. Make point W just the length of under arm measure below point B, and draw waist line square from point W and front line.

Draw front neck line, according to table and rule, with scale, from point N to *top line*. Draw shoulder line the actual length of shoulder measure, starting at the junction of neck and top lines having 18 C. or 7 inch mark touching point of shoulder line.

Draw *front gore line* so it will pass over point L, parallel with *front line*. Make a *new point L*, 5 M. or ¼ inch below last point L on *front gore line*. Make point G 5 C. or 2 inches below last point L on *front gore line*. Make point T on *front* line, 11 C. or 4¼ inches below point B.

Draw top of *darts line* from point T on front line to point G on front gore line. Make point D on front line for front measure just the distance from junctions of neck, top and shoulder lines as the front measure is, less the *back neck measure*. See Lesson I and IV.

Draw arm's eye line by making point A, 2 C. and 5 M. or 1 inch above bust line, and straight down from point of shoulder, make point E, 2 C. or ¾ inch from point A towards *front line*.

Draw arm's eye line from new point L, in a curved line, to point E, and almost straight from there to point of shoulder. Draw *dart* line from point D on front line to junctions of waist and front gore lines. Make point 1 on dart line, 5 C. or 2 inches from point D. Make point 2 on dart line just the distance from point 1 as given in table for size of darts. Make point 3, three C. or 1 inch from point 2. Make point 4 the distance from point 3 as the size of darts. Make points 5 and 6 respectively centre of darts. Make point 7, five M. or ¼ inch from front gore line, and on dart line. Draw centre of dart lines respectively from points 5 and 6 to top of dart line, and square with bust line, marking about 5 M. or ¼ inch to the right on top of dart line. Draw *curved lines* from there respectively to points 1, 2, 3 and 4, so as to form the darts etc.

Draw centre of dart lines from centre of darts and square from waist line, 30 C. or 11 or 12 inches below waist line, and draw straight lines from these points back again to points 1, 2, 3 and 4, so as to form *lower part of darts*, etc. Draw front gore hip line from point 7, in a curve, 15 C. or 6 inches below 7, and 3 C. or 1 inch back from front gore hip line, and draw line from point G to point 7

RULE 1st.—To get front bust measure, subtract 2 inches or 5 centimeters from whole bust measure, and divide remainder of bust measure by 3, and you will have front bust measure, from which you must subtract width of under arm gore, or *consult table.*

RULE 2d.—To get front neck, multiply whole neck by 2, and divide by 7, or see table.

## LESSON VII.

### SLEEVE.

Draw top and front line square, or at right angle with each other. Make point A on top line distant from front one half arm's eye measure. Make point P, 3 C. or one inch from top line on front line. Make point I on front line, 16 C. or 4 inches from top line. Draw point of sleeve line square from P and front line. Make point S on point of sleeve line one-half arm's eye measure from front line. Make point L, 5 C. or 2 inches from point S on point of sleeve line. Mark point H half way between points A and S. Make point E on front line arm to elbow measure from top line. Make point W on front line arm to wrist measure from top line. Make point 1 one inch from point W on front line. Draw lower wrist line square from point W and front line. Make point 2 one-half wrist measure from point W on lower wrist line. Draw upper wrist line from point 2 across point 1 to edge of paper. Make point 3 on upper wrist line, 4 C. or 1½ inches from point 1. Draw elbow line square from point E and front line.

Make point 4 on elbow line, 3 C. or one inch from point E. Make point 5 on elbow line one-half arm's eye measure from front line and point E. Make point 6 on elbow line, 3 C. or one inch outside of point 5. Draw upper arm's eye line, in a curve, from A to I; draw lower arm's eye line in a reversed curve from point H to I; draw point of arm's eye line from point A to point L. Draw upper sleeve line on a slight curve, by scale, from L to point 6, and under sleeve line from H to 5. Draw elbow line from 6 to point 2; and under elbow line from point 5 to 2. Draw lower sleeve line from point I to point 4, and from point 4 to point 3.

AGENTS WANTED.

CARMAN & BLANCHARD,
Steubenville,
Ohio.

# THE AMERICAN METRICAL SYSTEM.

## TABLE OF CALCULATIONS.

| Waist. | Back Waist. | Side Back. | Under Arm Gore. | Bust. | Common Back. | Fyench Back. | Front Bust. | Darts. Inches Decimals. | Front Neck. | Inches Decimals. |
|---|---|---|---|---|---|---|---|---|---|---|
| 40 | 3.5 | 4. | 5. | 50 | 7.5 | 9. | 16. | 1.2 | 7 | 2.1 |
| 39 | 3.4 | 3.9 | 4.8 | 49 | 7.4 | 8.8 | 15.7 | 1.4 | 8 | 2.3 |
| 38 | 3.3 | 3.8 | 4.7 | 48 | 7.2 | 8.6 | 15.4 | 1.5 | 9 | 2.6 |
| 37 | 3. | 3.7 | 4.6 | 47 | 7. | 8.5 | 15. | 1.6 | 10 | 3. |
| 36 | 3. | 3.6 | 4.5 | 46 | 6.8 | 8.3 | 14.7 | 1.8 | 11 | 3.2 |
| 35 | 2.9 | 3.5 | 4.4 | 45 | 6.6 | 8.1 | 14.4 | 1.9 | 12 | 3.5 |
| 34 | 2.8 | 3.4 | 4.3 | 44 | 6.5 | 8. | 14. | 2.1 | 13 | 3.7 |
| 33 | 2.7 | 3.3 | 4.2 | 43 | 6.4 | 7.8 | 13.7 | 2.2 | 14 | 4. |
| 32 | 2.6 | 3.2 | 4. | 42 | 6.2 | 7.6 | 13.4 | 2.4 | 15 | 4.2 |
| 31 | 2.5 | 3.1 | 3.8 | 41 | 6. | 7.5 | 13. | 2.5 | 16 | 4.5 |
| 30 | 2.5 | 3. | 3.7 | 40 | 5.8 | 7.3 | 12.7 | 2.7 | 17 | 4.7 |
| 29 | 2.4 | 2.9 | 3.6 | 39 | 5.6 | 7.1 | 12.4 | 2.8 | 18 | 4.8 |
| 28 | 2.3 | 2.8 | 3.5 | 38 | 5.5 | 7. | 12. | 3. | 19 | 5. |
| 27 | 2.2 | 2.7 | 3.4 | 37 | 5.4 | 6.8 | 11.7 | 1. | | |
| 26 | 2.1 | 2.6 | 3.3 | 36 | 5.2 | 6.6 | 11.4 | 1.1 | | |
| 25 | 2. | 2.5 | 3.2 | 35 | 5. | 6.5 | 11. | 1.2 | | |
| 24 | 2. | 2.4 | 3. | 34 | 4.8 | 6.3 | 10.7 | 1.5 | | |
| 23 | 1.9 | 2.3 | 2.8 | 33 | 4.6 | 6.1 | 10.4 | 1.8 | | |
| 22 | 1.8 | 2.2 | 2.7 | 32 | 4.5 | 6. | 10. | 1.7 | | |
| 21 | 1.7 | 2.1 | 2.6 | 31 | 4.2 | 5.8 | 9.7 | 1.8 | | |
| 20 | 1.6 | 2. | 2.5 | 30 | 4. | 5.6 | 9.4 | 2. | | |
| 19 | 1.5 | 1.9 | 2.4 | 29 | 3.8 | 5.5 | 9. | 2.1 | | |
| 18 | 1.5 | 1.8 | 2.3 | 28 | 3.6 | 5.3 | 8.7 | 2.2 | | |
| 17 | 1.4 | 1.7 | 2.2 | 27 | 3.5 | 5.1 | 8.4 | 2.4 | | |
| 16 | 1.3 | 1.6 | 2. | 26 | 3.4 | 5. | 8. | 2.6 | | |
| 15 | 1.2 | 1.5 | 1.8 | 25 | 3.2 | 4.8 | 7.7 | 2.7 | | |
| 14 | 1.1 | 1.4 | 1.7 | 24 | 3. | 4.6 | 7.4 | 2.8 | | |
| 13 | 1. | 1.3 | 1.6 | 23 | 2.8 | 4.5 | 7. | 3. | | |

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STUEBENVILLE, OHIO.

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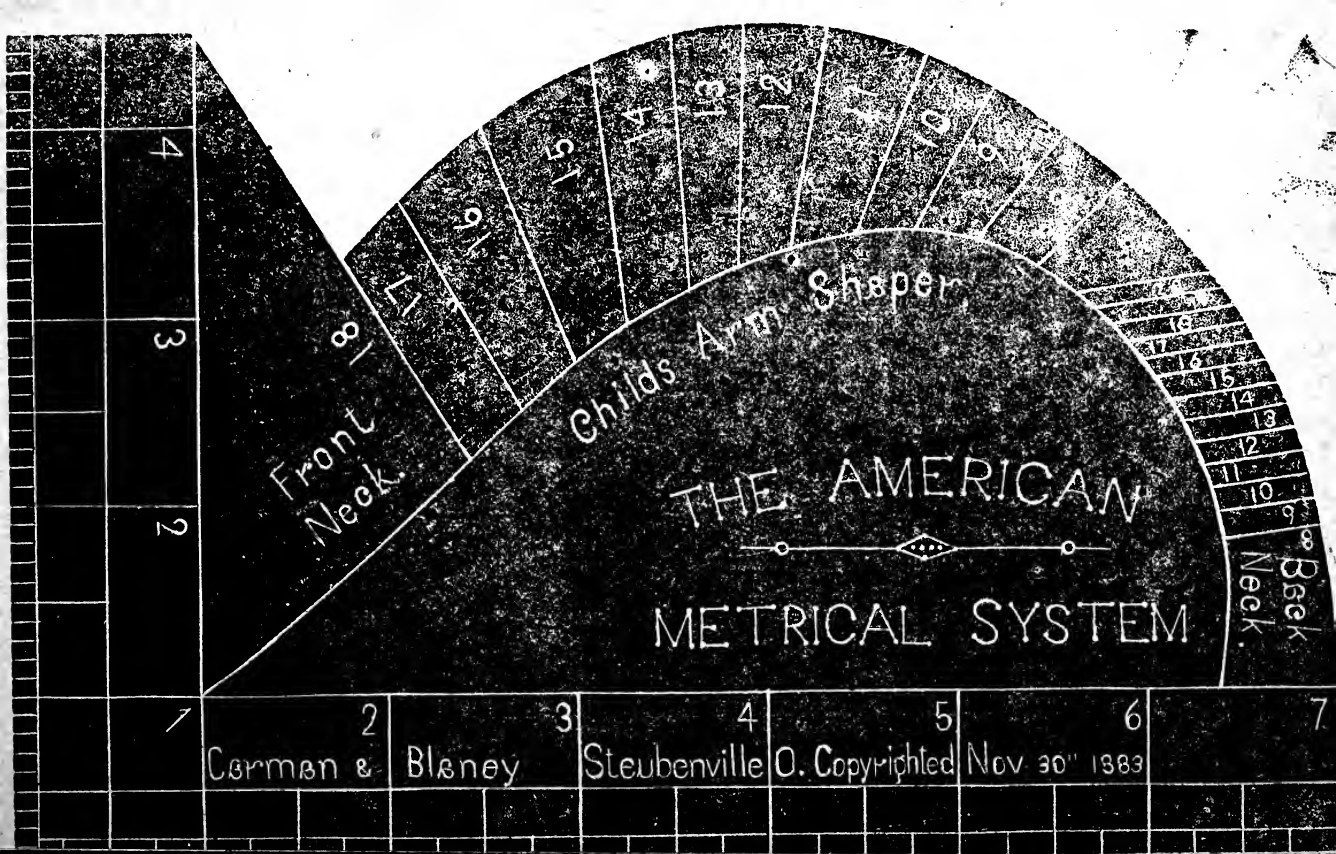
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Back Neck
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8

STEUBENVILLE OHIO

Metrical System

November 4th 1884

FRENCH BACK

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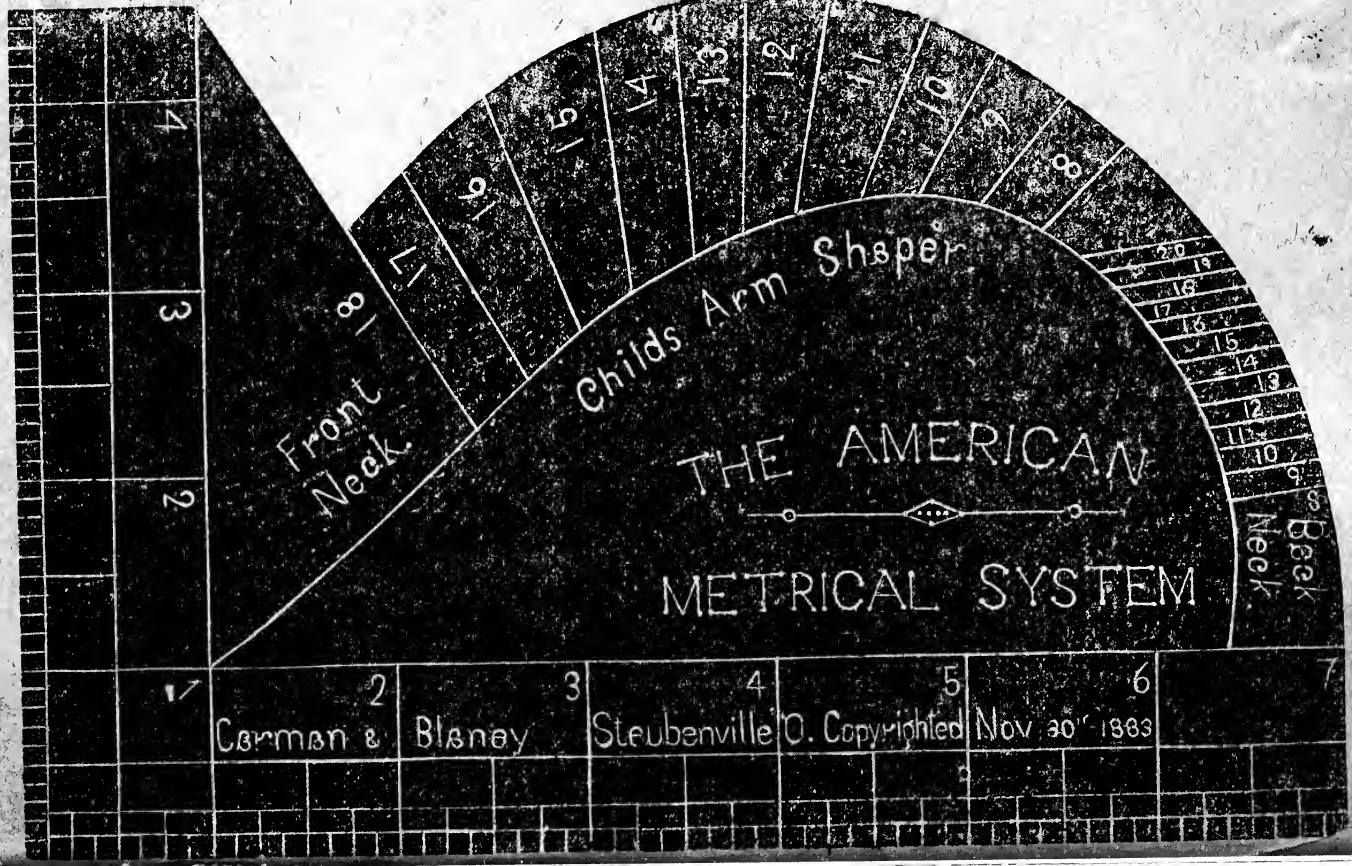
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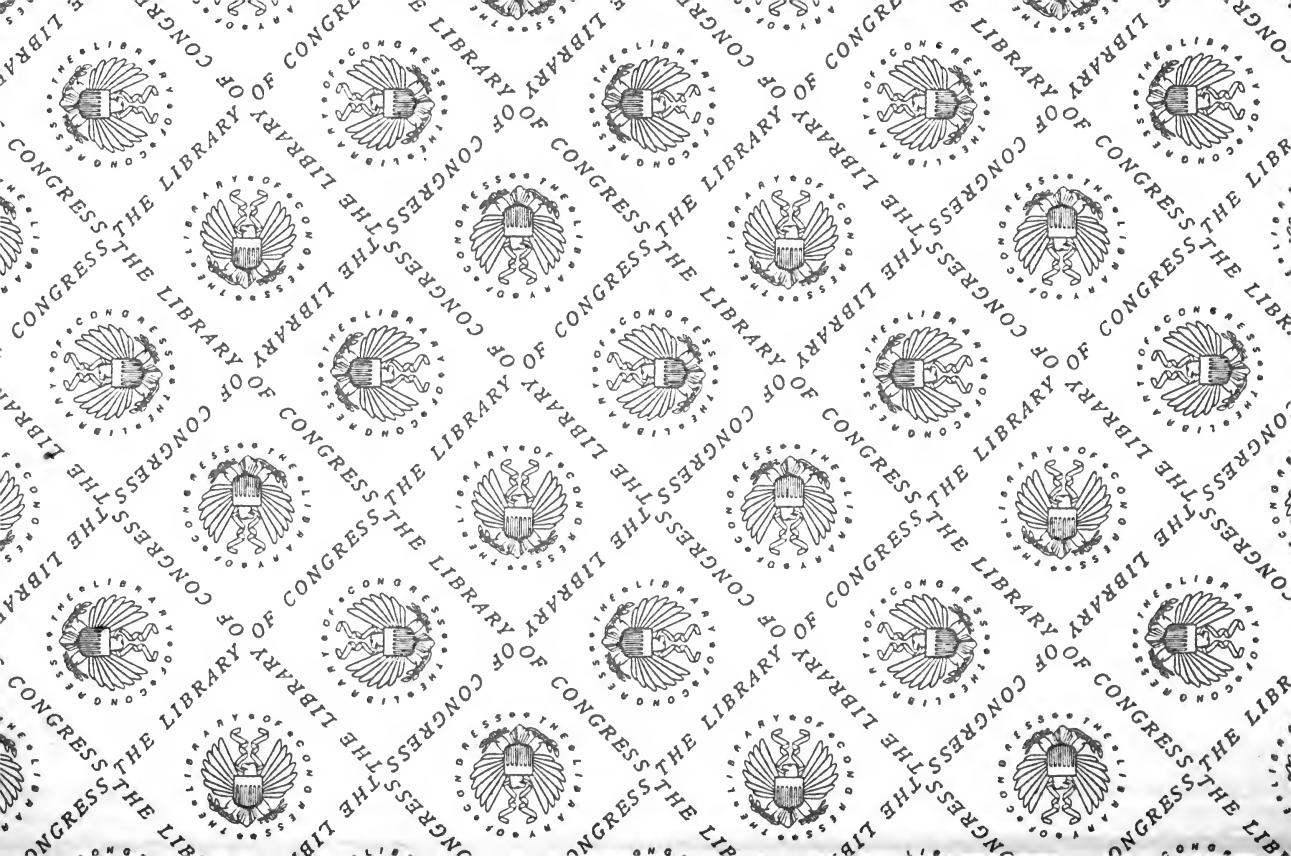
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